

ABSTRACT

The present invention involves a carriage of the type commonly used in skyline logging operations. The invention facilitates moving logs along a suspended skyline by means of a hoisting system built into the carriage comprised of a radio controlled electronics system, an internal combustion power plant, proportional controlled hydraulically driven skidline sheave, a skidline clamp and skyline clamp. A novel method of pump control keeps the internal combination engine operating within its power band. The volume output of the pump is controlled by engine RPM to adjust the pump's load on the engine. Combined operation of the various controls on the carriage, in conjunction with the controlled operations of the yarder winch at the end of the skyline result in a system well suited for efficient logging operation. The choker / setter (ground crew) and the yarder are able to remotely control the carriage operation as a team. The carriage controls of the present invention are primarily hydraulic, actuated by means of electrical solenoid valves.